

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/002194

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷: B29C 44/34, B29C 44/58, B29C 45/00

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: B29C, USPC: 264, 293, 343

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Delphion, Questel-Orbit (Pluspat), USPTO, CPD with key words, such as, steam chest mold or mould, foam, expanded plastics, expandable plastics, beads or particles, side core or side cavity, die draw and slides.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
Y, P	US 6,821,465 B1 (STEIN, A.C. et al.) 23 November 2004 (23-11-2004) the whole document	1-22
Y	US 2002/0121715 A1 (SANDEFER, P. et al.) 5 September 2002 the whole document	1-22
Y	US 6,353,415 B1 (ASHTIANI, M. et al.) 5 March 2002 (05-03-2002) the whole document	1-22
Y	US 2003/0111852 A1 (CARLEY, M. et al.) 19 June 2003 (19-06-2003) the whole document	1-22
Y	<Injection Mould Design>, 4th ed, (PYE, R. G. W) 1983 pages 301-339, specially in section 9.1 on pages 301-309 and Fig. 9.3	1-22

[] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* Special categories of cited documents :	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

05 April 2005 (05-04-2005)

Date of mailing of the international search report

09 May 2005 (09-05-2005)

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Information on patent family members

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Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US6821465	23-11-2004	NONE	
US2002121715 A1		US6695998 B2 US2004150127 A1 WO03041936 A1	24-02-2004 05-08-2004 22-05-2003
US6353415 B1	05-03-2002	EP1206002 A2	15-05-2002
US2003111852 A1	16-06-2003	AU2002361657 A1 US6793256 B2 WO03051678 A1	30-06-2003 21-09-2004 28-06-2003